

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION SR-5 to Vic. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-1 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station LM 112+90 Offset 9 Ground El. -0.5'
 Type of Boring Chop and Drive Casing 3" I.D., -43.0' W.T. El. +9.3'
 Inspector _____ Date February 18, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				Suspended WOOD GRAINS and SILT.
				Saturated SAND — with peat lenses.
	25		11 STD 9 PEN 16 21	Dense, gray, wet, very silty, fine gravelly, fine to medium SAND — with organic material.
5				
10	23		5 STD 12 PEN 11 12	Medium dense, gray, moist, very silty, fine SAND — with silty clay lenses and a trace of medium sand.
15	19		11 STD 11 PEN 8 14	Very stiff, yellow-brown, wet, fine gravelly, silty, fine sandy CLAY
	46		8 STD 13 PEN 33 71	Dense, gray, dry, very silty clayey, fine to coarse SAND — with a trace of fine gravel (Glacial Till).
20				

DOT FORM 351-003
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This is a summary Log of Test Boring. Original to Materials Engineer
 Soil/Rock descriptions are derived Copy to Bridge Engineer
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 laboratory tests.

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Hole No. HX-1

Sub Section 3rd Lake Washington Floating Bridge

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DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
25	113		31 ↑ STD 57 ↑ PEN 56 ↓ 5	Very dense, gray, dry, very silty, gravelly, fine to coarse SAND.
				Artesian flow at -25 ft.: Head +11.5' above lake water at elevation +7.5'. Rise +6" in 4 min., in 3" diameter casing. Approximately 27 gallons per hour. Water flow plugged off with sand and wash from hole, after casing was pulled back up to -20 ft. below ground elevation.
30	100		27 ↑ STD 44 ↑ PEN 56 ↓ 6	Very dense, gray, dry, very silty, gravelly, fine to coarse SAND.
35	57		23 ↑ STD 25 ↑ PEN 32 ↓ 7	Very dense, gray, wet, silty, fine to medium SAND.
40	70		20 ↑ STD 26 ↑ PEN 44 ↓ 8	Very dense, gray, wet, very silty, fine gravelly, fine to medium SAND.
45	95		14 ↑ STD 39 ↑ PEN	Very dense, gray, dry, silty, fine to medium SAND — with fine gravel, a trace of coarse sand and silty sand lenses.

Hole No. HX-1

Sub Section 3rd Lake Washington Floating Bridge

Sheet 3 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	86	▼	47 ▼ 9	
				Test boring stopped at 45.5' below ground elevation.
				NOTE: Artesian Head Information: Put 12 ft. of casing on, after drilling to bottom of hole at 45.5'. Let casing stand for over an hour. Head rose to +11.5' above water level, slowing as it rose. It didn't appear to rise for several minutes after reaching height of +11.5'.
				Water level (Lake Surface): +9.8' above ground elevation.

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-2 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station M109+20 Offset £ Ground El. 42.3'
 Type of Boring Chop and Drive Casing 3" I.D. - 45.0' W.T. El. 27.3'
 Inspector _____ Date March 4, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				Sod, organic, sandy SILT.
				Blue-gray, clayey SILT.
5				
	15		10 STD 8 PEN 7 1 7	Medium dense, brown, moist, very silty, fine gravelly, fine to medium SAND.
10				
	14		16 STD 9 PEN 5 2 14	No recovery, (medium dense, brown, gravelly, silty SAND.)
15				
	33		21 STD 20 PEN 13 3 12	Dense, brown, wet, very silty, fine to coarse sandy, fine GRAVEL.
20				

DOT FORM 351-003
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Hole No. HX-2Sub Section 3rd Lake Washington Floating BridgeSheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			15 STD 15 PEN 22 4 25	Dense, gray-brown, moist, very silty, fine SAND — with some partings.
25			20 STD 35 PEN 51 5	Very dense, gray-brown, moist very silty, fine SAND — with silt partings, a trace of coarse sand a gravel. (Glacial Till).
30			15 STD 20 PEN 36 6 33	Very dense, tan, moist, layers of clayey SILT — fine gravel, and fine sand with fine sand seams and cementations.
				SAND layer.
35			21 STD 21 PEN 36 7 53	Very dense, tan-gray, moist, interbedded fine SAND and SILT — with a trace of medium to coarse sand and fine gravel.
40			25 STD 20 PEN 20 8 20	Dense, brown, moist, very silty, fine SAND — with a trace of fine gravel.
45				Layer of very dense, sandy GRAVEL.

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
5				
	3		1 STD 1 PEN 2 1	Very loose, gray, moist, slightly clayey, fine sandy SILT.
	17		5 11 STD 7 PEN 10 2	Medium dense, gray, moist, slightly clayey, fine sandy SILT.
10			12	
	82		26 STD 40 PEN 42 3 47	Very dense, gray, moist, slightly clayey, fine sandy SILT — (Sandy Glacial Till).
15				
		?		
	110		23 STD 53 PEN 65 4	Very dense, gray, dry, fine gravelly, very silty, fine to coarse SAND (Glacial Till).
20				

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Hole No. HX-3 Sub Section 3rd Lake Washington Floating Bridge Sheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	50/3"		56 ↑ STD 50 ↓ PEN 3" 5	Very dense, gray, dry, fine gravelly, very silty, fine to coarse SAND (Glacial Till).
25				
	50/1"		56 ↑ STD 50 ↓ PEN 1" 6	Very dense, gray, dry, fine gravelly, very silty, fine to coarse SAND (Glacial Till).
30				
35	94/6"		94 ↑ STD ↓ PEN 7	Very dense, gray, dry, fine gravelly, very silty, fine to coarse SAND (Glacial Till).
				Tri-cone drill bit went through, or past, large gravels at this depth.
40	106/10"		36 ↑ STD 56 ↓ PEN 50 ↓ 8 4"	Very dense, gray, dry, fine gravelly, very silty, fine to coarse SAND (Glacial Till).
				Tri-cone drill bit went alongside, or through, large gravels at this depth.
45			36 ↑ STD	

Hole No. HX-3

Sub Section 3rd Lake Washington Floating Bridge

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX 4 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L 106+20 Offset 15' Rt. Ground El. 89.5'
 Type of Boring Chop Casing 3" I.D. -50'2" W.T. El. 57.3'
 Inspector _____ Date March 19, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				SOD.
5				
	6		2 STD 3 PEN 3 1 4	Medium stiff, gray, moist, fine sandy, clayey SILT — with a trace of gravel.
10				
			A U-2 B 3 4 STD 7 PEN 8 3	Stiff, gray, moist, silty CLAY — with cementations.
15				
			B U-4 4 STD 5 PEN 6 5 7	Stiff, gray, wet, silty CLAY — with a trace of gravel and wood fragments.
20				

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Hole No. HX-4 Sub Section 3rd Lake Washington Floating Bridge Sheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
20			5 ↑ STD 7 ↓ PEN 13 ↓ 6 18 ↓	Medium dense, gray, moist, SILT — with a trace of fine gravel and sand lenses in places. (Very stiff, mottled, tan-brown, silty CLAY.)
25				
15			13 ↑ STD 10 ↓ PEN 5 ↓ 7 8 ↓	Medium dense, gray, moist, slightly silty, fine gravelly, fine to coarse SAND.
30				
41			14 ↑ STD 18 ↓ PEN 23 ↓ 8 31 ↓	Dense, brown, filty, fine to coarse SAND — with a trace of gravel.
35				
72			17 ↑ STD 42 ↓ PEN 30 ↓ 9 26 ↓	Very dense, tan, moist, very silty, fine to coarse SAND — with imbedded fine gravel.
40				
69 1/6"			36 ↑ STD 59 ↓ PEN 10 ↓	Very dense, tan, moist, very silty, fine SAND — with a trace of of medium sand and fine gravel. (Sandy Glacial Till).
45				

Sheet 3 of 3

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-5 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L 180+76 Offset 40' Rt. Ground El. -76.7'
 Type of Boring Chop and Drive Casing 4" I.D. -4.0'; 3" I.D. -53.5' W.T. El. +7.8'
 Inspector _____ Date March 9, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			A B C D E U-1	
5	0/24"		0 24" STD PEN 2	Very soft, saturated, gray, silty CLAY.
	0/24"		0 24" STD PEN 3	Very soft, saturated, gray, silty CLAY.
10				
			A B C D U-4	
15	4		0 1 3 8 STD PEN 5	Very loose, gray, moist, SILT — with a trace of fine sand and organic material.
	12		4 6 6 7 STD PEN 6	Stiff, gray, moist, clayey SILT — with silty, fine sand lenses containing fine gravel.
20				

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)Hole No. HX-6 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704Station IL 182+55 Offset 40' Lt. Ground El. -77.1'Type of Boring Chop and Drive Casing 4" I.D. -900'; 3" ID. -140' (52') W.T. El. +7.8'Inspector _____ Date March 11, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			A U-1	Saturated gray organic clayey SILT.
				Layer of fine sandy SILT.
				SAND Layer
				Layer of organic sandy SILT.
	0/24"		STD PEN 2	Very loose, gray, saturated, organic, silty, fine SAND.
5				
	0/24"		STD PEN 3	Very soft, gray, wet, silty CLAY.
10				
			C U-4	
			E	
			F	
15	0/24"		STD PEN 5	Very soft, gray, wet, silty CLAY.
			C U-6	
			D	
			F	
20	0/24"		STD PEN 7	No recovery except small chunk of sand-covered clayey SILT.

DOT FORM 351-003
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DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			STD PEN 7	No recovery except small chunk of sand-covered clayey SILT.
	0 / 24"		STD PEN 8	Very soft, gray, moist, silty CLAY.
25				
30	50		B _C U-9 D 12 STD PEN 10 22 28 21	Dense, gray, moist, fine sandy SILT — with sand lenses and a trace of imbedded fine gravel. (Glacial Till).
	43		20 STD PEN 11 23 25	Dense, gray, moist, fine sandy SILT — with imbedded gravel. (Glacial Till).
35				
	21		11 STD PEN 12 10 11 11	Medium dense, gray, moist, fine sandy SILT — with imbedded gravel. (Glacial Till).
40				
	52		17 STD PEN 13 18 34	No recovery.
45				

Hole No. HX-6Sub Section 3rd Lake Washington Floating BridgeSheet 3 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	107/4"		107 4" STD PEN 14	No recovery.
50				SAND layer.
51			8 22 STD 29 PEN 31 15 b	Stiff, gray, moist, silty CLAY — with fine sand streaks Very dense, gray, moist, fine sandy SILT — with imbedded gravel. (Glacial Till).
55				
60	100/4"		22 100 STD 4" PEN 16	Very dense, gray, moist, clayey, fine sandy SILT — with imbedded fine gravel. (Glacial Till).
65	50/4"		61 50 STD 4" PEN 17	Very dense, gray, moist, fine sandy SILT — with imbedded gravel. (Glacial Till).
				Tri-coned down in Glacial Till, 17 ft. ahead of casing; unable to sample at -69 ft. because large gravel had fallen out of hole wall preventing sampler from reaching bottom of hole.
69				
				Test hole stopped at 69.0' below ground elevation.

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-7 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L 196+72 Offset 40' Rt. Ground El. -23.0'
 Type of Boring Chop and Drive Casing 4" I.D. -33'; 3" I.D. -51.0' W.T. El. +8.0'
 Inspector _____ Date March 17, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			C	U-1
	4		2	STD
			3	PEN
			1	2
			1	
5				
			B C	U-3
	38		21	STD
			18	PEN
			20	4
			37	
10				
	60		17	STD
			24	PEN
			36	5
			39	
15				
	49		13	STD
			20	PEN
			29	6
			43	
20				

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Hole No. HX-7 Sub Section 3rd Lake Washington Floating Bridge Sheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	40		13 ↑ STD 16 ↑ PEN 24 ↓ 7 29 ↓	Dense, gray, moist, very silty, fine to coarse SAND — with wood and a trace of fine gravel.
25				
	70		20 ↑ STD 30 ↑ PEN 40 ↓ 8 48 ↓	Very dense, gray, moist, silty, fine to medium SAND — with a trace of fine gravel and coarse sand.
30				
	93		30 ↑ STD 44 ↑ PEN 49 ↓ 9	Very dense, gray, moist, silty, fine to medium SAND — with a trace of fine gravel and coarse sand.
35				
	72		20 ↑ STD 30 ↑ PEN 42 ↓ 10	Very dense, gray, moist, silty, fine to medium SAND — with thin peat lenses.
40				
	81		27 ↑ STD 34 ↑ PEN 47 ↓ 11	Very dense, gray, moist, fine sandy SILT — with a trace of organic material.
45				

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. SR-405 Job No. L-4203 (L-7579)Hole No. HX-8 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704Station 107+99 Offset 0 Ground El. 74.8Type of Boring Wash and Chop Casing 3"x55' W.T. El. Not determinedInspector _____ Date March 19, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
5				
			A ↑ U-1	
			2 ↑ STD	
7			3 ↓ PEN	Medium stiff, gray, moist, fine sandy gravelly SILT and CLAY.
			4 ↓ 2	
10				
			A ↑ U-3	
			2 ↑ STD	
11			4 ↓ PEN	Medium dense, gray, moist, clayey, fine sandy, SILT — with imbedded fine gravel.
			7 ↓ 4	
			6 ↓ 4	
15				
			A ↑ U-5	
			7 ↑ STD	No recovery
17			9 a ↓ PEN	Medium dense, gray, moist, clayey silty SAND.
			8 b ↓	Medium dense, brown, moist, slightly clayey, fine sandy, fine
			16 ↓ 6	gravelly SILT — with a trace of organic material.
20				

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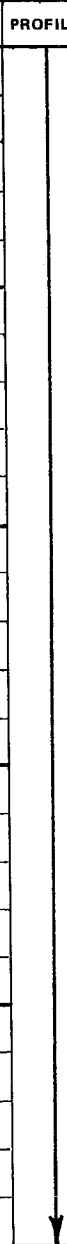
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Hole No. HX-8Sub Section 3rd Lake Washington Floating BridgeSheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	9		9 ↑ STD 4 PEN	Loose, gray and brown, moist, silty, fine gravelly, fine to coarse SAND.
			5 ↓ 7	
25				
	47		20 ↑ STD 22 PEN	Dense, gray and brown, moist, silty, fine gravelly, fine to coarse SAND.
			25 ↓ 23	
30				
	60/6"		31 ↑ STD 60 PEN	Dense, gray and brown, moist, silty, fine gravelly, fine to coarse SAND.
			9	
35				
	29		16 ↑ STD 17 PEN	Dense, brown, moist, very silty, fine gravelly, fine to coarse SAND.
			12 ↓ 15	
40				
	67		28 ↑ STD 31 PEN	Very dense, gray, moist, silty, fine to coarse SAND.
			36 ↓ 11	
45				

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-9 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L 196+63 Offset 40' Lt. Ground El. -27.5'
 Type of Boring Chop and Drive Casing 4" I.D. -38.0', 3" I.D. -79.5' (41.5') W.T. El. +7.7'
 Inspector _____ Date March 19, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	6		3 STD 2 PEN 4 4 1	Loose, gray, saturated, very silty, fine SAND — with a trace of organic material.
5	54		16 a STD 24 PEN 30 b 24 2	Dense, tan, moist, fine sandy, fine gravelly SILT — with rust streaks. Very dense, rust and gray layers, moist, fine sandy, fine gravelly SILT.
10	47		17 STD 21 PEN 26 3 29	Dense, gray, wet, silty, fine to medium SAND — with a trace of organic material.
15	57		21 STD 24 PEN 33 4 33	Very dense, gray, wet, fine sandy SILT — with imbedded fine gravel. (Sandy Glacial Till).
20				

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Hole No. HX-9Sub Section 3rd Lake Washington Floating BridgeSheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			25 ↑ STD	
			35 ↑ PEN	
			44 ↓ 5	Very dense, gray, wet, silty, fine gravelly, fine to coarse SAND.
	79			
25				
			23 ↑ STD	
			37 ↑ PEN	
	84		47 ↓ 6	No recovery except one pebble and a smear of slightly silty, medium SAND in sampler.
30				
			25 ↑ STD	
			35 ↑ PEN	
	80		45 ↓ 7	Very dense, gray, wet, silty, fine to medium SAND.
35				
			15 ↑ STD	
			34 ↑ PEN	
	77		43 ↓ 8	No recovery except smear of slightly silty, medium SAND — and one fine GRAVEL in sampler.
40				
			25 ↑ STD	
			26 ↑ PEN	
	65		39 ↓ 9	Very dense, gray, wet, laminated, fine sandy SILT.
45			↑ S-10	

Sheet 3 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			16 STD 27 PEN 47 11	Very hard, gray, moist, alternating partings of CLAY.
50	74			
55			16 STD 20 PEN 46 12	Very hard, gray, moist, silty CLAY — with fine sand streaks.
	66			Test boring stopped at 56.0' below ground elevation.

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-10 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L 184+26 Offset 40' Rt. Ground El. -61.2'
 Type of Boring Chop and Drive Casing 4" I.D. -72'
3" I.D. -13.9' (68') W.T. El. +7.8'
 Inspector _____ Date March 23, 1983 Sheet 1 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			1 STD	
			2 PEN	
			4 1	
			2	
	6			Loose, gray-green, saturated, organic, very silty, fine SAND - with a trace of medium sand and mica.
			1 STDa	
			0/ PEN	
			18" 2	
	5			Very loose, gray-green, saturated, organic, very silty, fine SAND - with a trace of medium and coarse sand, mica and organic material.
	0/			Very soft, dark brown, wet, highly organic (rotten wood) SILT - with one inch layer of fine sand and a trace of coarse sand.
	18"			
			A U-	
			B 3	
			C	
			D	
	10		E	
			F	
			1 STDa	
			0/ PEN	
			24" 4 b	
	0/			Very soft, brown, wet, highly organic SILT - with small fibers.
	24"			Very soft, gray, wet, highly organic SILT - with small fibers.
			B U-	
			C 5	
			D	
	15			
			2 STD	
			2 PEN	
			1 6	
	4			Very loose, gray, moist, fine to medium SAND interlayered with soft, gray, clayey silt and a trace of white shells.
			4 STD	
			1 PEN	
			1 7	
	2			Soft, gray, wet, fine sandy, silty CLAY - with a trace of medium to coarse sand.
	20			

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Hole No. HX-10

Sub Section

3rd Lake Washington Floating Bridge

Sheet 2 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
25	2		1 1 1 1 ↑ STD PEN 8 ↓	Soft, gray, wet, fine sandy, silty CLAY - with a trace of medium to coarse sand.
30	20		A B C D 10 12 8 16 ↑ U- 9 ↓ ↑ STD PEN 10 ↓	Very stiff, gray, moist, silty CLAY interlayered with medium dense, gray, fine sand.
35	36		13 15 21 25 ↑ STDa PEN 11 b ↓	Dense, gray, moist, gravelly, fine SAND - with lenses of fine sandy SILT. Dense, gray, moist, fine sandy SILT - with a trace of medium sand and fine gravel.
40	41		20 17 24 18 ↑ STD PEN 12 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium sand and fine gravel.
45	28		12 14 14 14 ↑ STD PEN 13 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium sand and fine gravel.

Hole No. HX-10 Sub Section 3rd Lake Washington Floating Bridge Sheet 3 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				Sinking bar jammed by gravel large enough to get between it and casing.
50	29		11 ↑ STD 16 PEN 13 ↓ 14 15	Dense, gray, moist, fine sandy SILT - with a trace of medium sand and fine gravel. (Glacial Till).
				Gravel large enough to jam between sinking bar and casing.
55	43		11 ↑ STD 18 PEN 25 ↓ 15	Dense, gray, moist, fine sandy SILT - with a trace of medium sand and fine gravel.
60	22		11 ↑ STD 10 PEN 12 ↓ 16 12	No Recovery.
65	31		25 ↑ STD 21 PEN 10 ↓ 17 6	Dense, gray, moist, fine to coarse sandy, fine gravelly SILT.
70	56/6"		53 ↑ STD 56 PEN 18	Very dense, gray, moist, fine sandy SILT - with a trace of medium sand and fine gravel. (Glacial Till).

Hole No. HX-10 Sub Section 3rd Lake Washington Floating Bridge Sheet 4 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	27		9 12 15 21	Very stiff, gray, moist, fine sandy, silty CLAY - with powdery, clayey, silty partings and fine sand streaks.
75				
				Tri-cone chattered on large gravel or cobble at this depth.
80			11 15 19	Hard, gray, moist, fine sandy, silty CLAY - with powdery, clayey, silty partings and fine sand streaks.
	34			
85			21 12 15	Very stiff, gray, moist, fine sandy, silty CLAY - with powdery, clayey, silty partings and fine sand streaks.
	27			
90			A B C 17 31 41	Very hard, gray, moist, fine sandy, silty CLAY - with a trace of medium to coarse sand. About 20° to 30° dip.
	72			
95				

Hole No. HX-10

Sub Section 3rd Lake Washington Floating Bridge

Sheet 5 of 5

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)
 Hole No. HX-11 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L117+82 Offset E Ground El. -75.5'
 Type of Boring Chop and Drive Casing 3" I.D. -113.8' (28'4") W.T. El. +7.8'
 Inspector _____ Date March 26, 1983 Sheet 1 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	10	↑ ? ↓	2 ↑ STD 4 PEN 6 ↓ 1 7 ↓	Loose, gray, saturated, silty, fine SAND.
5				
	7		2 ↑ STD 2 PEN 5 ↓ 2 5 ↓	Loose, gray, moist, very silty, fine to coarse SAND - with mica.
10	33	↑ ? ↓	11 ↑ STD 13 PEN 20 ↓ 3 16 ↓	Dense, gray, moist, fine sandy, fine gravelly SILT - with organic hairs and a trace of embedded coarse sand.
	28		13 ↑ STD 12 PEN 16 ↓ 4 24 ↓	Dense, gray, moist, fine sandy, fine gravelly SILT - with organic hairs and a trace of embedded coarse sand.
15				
		↑ ? ↓	14 ↑ STD 18 PEN 26 ↓ 5	Dense, gray, dry, fine sandy SILT - with fine sand partings, mica and a trace of coarse sand.
20	44			

DOT FORM 351-003
REVISED 12/79

This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory tests.

Original to Materials Engineer
Copy to Bridge Engineer
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Hole No. HX-11 Sub Section 3rd Lake Washington Floating Bridge Sheet 2 of 3

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			42 ↓	
		✱		
25	83		22 ↑ STD 38 PEN 45 ↓ 6	Very dense, gray, moist, slightly clayey, fine sandy, silty GRAVEL.
30	100/7"		42 ↑ STD 58 PEN 50/1" 7	Very dense, gray, moist, slightly clayey, fine sandy, silty GRAVEL - with clayey silt lenses.
		✱		
35				
	84		24 ↑ STD 34 PEN 50 ↓ 8	Very dense, gray, moist, silty, fine to medium SAND - with a trace of coarse sand and fine gravel. (Sandy Glacial Till).
40				
	106		36 ↑ STD 45 PEN 61 ↓ 9	Very dense, moist, silty, fine gravelly, fine to coarse SAND.
45				Artesian stream at 44 ft. Head +18.0' above lake surface; 360 gallons per hour. Dumped wash sand down hole to try to stop flow.

Hole No.

HX-11

Sub Section

3rd Lake Washington Floating Bridge

Sheet

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3

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)Hole No. HX-12 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704Station L 202+21 Offset 65' Rt. Ground El. +54Type of Boring Wash and Chop Casing 3" x 40' W.T. El. +48 (3/30/83)Inspector _____ Date March 29, 1983 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	8	↑	1 STD 1 PEN 7 1 8 ↓	Loose, brown, dry, fine sandy SILT - with organic hairs and a trace of fine gravel.
5		↑	30 STD 33 PEN 37 ↓ 2	Very dense, brown, dry, fine sandy SILT - with organic hairs and a trace of fine gravel.
	70			
				Installed 2 stand pipes, #1 bottom at +48', #2 bottom at +34', Seals at 10' to 12' and 0' to 1'.
10		↑	17 STD 18 PEN 24 3 32 ↓	Dense, brown, dry, fine sandy SILT - with mica.
	42			
15		↑	11 STD 15 PEN 20 4 24 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
	35			
20				

DOT FORM 351-803
REVISED 12/79


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Hole No. HX-12Sub Section 3rd Lake Washington Floating BridgeSheet 2 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	39		12 ↑ STD 21 ↑ PEN 18 ↓ 5 23 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
25				
	50		20 ↑ STD 25 ↑ PEN 25 ↓ 6 39 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
30				
	43		14 ↑ STD 18 ↑ PEN 25 ↓ 7 37 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
35				
	63		11 ↑ STD 25 ↑ PEN 38 ↓ 8 60 ↓	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
40				
	84		43 ↑ STD 33 ↑ PEN 51 ↓ 9	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
45				
				Test boring stopped 41' 6" below ground elevation.

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203
 Hole No. HX-13 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L116+13 Offset 20' Rt. Ground El. -53.0'
 Type of Boring Chop and Drive Casing 4" I.D., -4'
3" I.D., -66 (BX-105') W.T. El. +8.0'
 Inspector _____ Date March, 1983 Sheet 1 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	20	↑	13 STD 10 PEN 10 1 13 ↓	Medium dense, gray, moist, slightly silty, gravelly, fine to coarse SAND.
5		↑	14 STD 14 PEN 20 2 18 ↓	Dense, gray, moist, slightly silty, gravelly, fine to coarse SAND.
	34			
10		↑	18 STD 25 PEN 26 3 18 ↓	Very dense, gray, moist, slightly silty, fine gravelly, fine to coarse SAND.
	51			
15		↑	22 STD 15 PEN 17 4 22 ↓	Dense, gray, moist, very silty, fine gravelly, fine to coarse SAND.
	32			
20				

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 identifications and laboratory tests.

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Hole No. HX-13

Sub Section 3rd Lake Washington Floating Bridge

Sheet 2 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
34			24 ↑ STD 16 ↑ PEN 18 ↓ 5 22 ↓	Dense, gray, moist, very silty, fine gravelly, fine to coarse SAND.
25				
	100/6"		42 ↑ STD 100 ↓ PEN 6	Very dense, gray, moist, very silty, fine gravelly, fine to coarse SAND.
30				
	115/8"		24 ↑ STD 65 ↓ PEN 50/2" 7	Very dense, gray, moist, fine to medium sandy SILT - with a trace of coarse sand.
35				
	100/5"		100/5" STD 5" PEN 8	Very dense, gray, moist, slightly silty, fine to coarse sandy, fine GRAVEL.
				15 ft flowback of pebbly sand in rods, from -53 ft back up to -38 ft.
40				Artesian stream begins at -39 ft. Head +6.3' above lake level. Flow 121 gallons per hour.
	50/2"		77 ↑ STD 50/2" PEN 9	Very dense, gray, moist, silty, fine gravelly, fine to coarse SAND.
45				

Hole No. HX-13

Sub Section

3rd Lake Washington Floating Bridge

Sheet 3 of 5

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Hole No. HX-13 Sub Section 3rd Lake Washington Floating Bridge Sheet 4 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
75	89		36 45 44 STD PEN 15	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
80	96		26 43 53 STD PEN 16	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand, gravel and mica.
	100/ 2"		STD 100/ 2" PEN 17	Very dense, gray, moist, silty, gravelly, fine to coarse SAND.
85				
90				
95				

Hole No. HX-13 Sub Section 3rd Lake Washington Floating Bridge Sheet 5 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
100				
	92		24 ↑ STD 40 ↓ PEN 52 ↓ 18	Very hard, gray, moist, silty, fine to coarse sandy CLAY. (Glacial Till).
105				
	62		20 ↑ STD 26 ↓ PEN 36 ↓ 19	Very hard, gray, moist, silty, fine to coarse sandy CLAY - with a trace of embedded gravel.
110				Test boring stopped at 108.5' below ground elevation.
				Water Elevation - Artesian pressure 35' to 66'. Head 18' above lake level. Flow with 4' head, 900 gallons per hour.
115				Casing broke off 35' below lake bed while pulling casing. Backfilled with drill mud and cement to stop artesian flow.
120				

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION SR-5 to Vic. Jct. SR-405 and SR-90 Job No. L-4203
 Hole No. HX-14 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L-200+32 Offset 40' Rt. Ground El. +45
 Type of Boring Wash and Chop Casing 3" W.T. El. Not Determined
 Inspector _____ Date March 30, 1983 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	3		1 ↑ STD 2 ↓ PEN 1 2 ↓	Very loose, gray, moist, organic, fine sandy SILT - with a trace of medium to coarse sand.
5				
	25		6 ↑ STD 11 ↓ PEN 14 14 ↓	Dense, brown, moist, fine gravelly, very silty, fine SAND - with a trace of medium to coarse sand.
10				
	51		6 ↑ STD 11 ↓ PEN 40 48 ↓	Very dense, brown, moist, gravelly, very silty, fine SAND - with a trace of medium to coarse sand.
15				
	75		21 ↑ STD 34 ↓ PEN 41 ↓	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
20				

DOT FORM 351-003
REVISED 12/79




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Hole No. HX-14 Sub Section 3rd Lake Washington Floating Bridge Sheet 2 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	60		12 ↑ STD 25 ↓ PEN	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
			35 ↓ 5 38 ↓	
25				Boulder 24' to 25'.
	64		22 ↑ STD 24 ↓ PEN 40 ↓ 6 53 ↓	Very dense, gray, moist, fine sandy SILT - with a trace of mica.
30				
	60		17 ↑ STD 27 ↓ PEN 33 ↓ 7 46 ↓	Very dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
35				
	100/ 1"		100/↑ STD 1" ↓ PEN 8	Very dense, gray, moist, very silty, fine gravelly, fine to coarse SAND - with cobbles.
40				
	75		25 ↑ STD 28 ↓ PEN 47 ↓ 9	Very dense, gray, moist, fine gravelly, fine sandy SILT.
45				Test boring stopped 41.5' below ground elevation.

LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203
 Hole No. HX-15 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704
 Station L-113+48 Offset 20' Rt. Ground El. -26.5'
 Type of Boring Chop, Drive, and Rotary Casing 3" I.D.-50 ft., BX-145' W.T. El. +8.0'
 Inspector _____ Date April 19, 1983 Sheet 1 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	15	↑	11' STD 6 PEN 9 1 14 ↓	Medium dense, gray, moist, fine gravelly, fine to coarse SAND.
5		↑	13 STD 17 PEN 22 2 26 ↓	Dense, gray, very silty, fine SAND - with a trace of medium to coarse sand and gravel.
	39			
				Backfilled with wash sand from -15.0' to lake bottom.
10	50/1"	↑	50/ STD 1" PEN 3 ↓	No Recovery - Cobble.
15	100/5"	↑	100/ STD 5" PEN 4 ↓	Very dense, gray, very silty, fine SAND - with a trace of medium to coarse sand.
		↑		Backfilled with mixture of High Early Strength cement, Barite, and Pea Gravels from -18.0' back up to -15.0', and let set for 1 hour.
	100/5"		100/ STD 5" PEN 5 ↓	Very dense, gray, very silty, fine SAND - with a trace of medium to coarse sand and gravel. (Glacial Till)
20				

DOT FORM 351-003
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This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory tests.

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Hole No. HX-15 Sub Section 3rd Lake Washington Floating Bridge Sheet 2 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				Backfilled with a mixture of fine gravel, Barite, and Bentonite pellets from -28.0' back up to -18.0'
25	100/5"		STD 100/5" PEN 6	Very dense, gray, very silty, fine SAND - with a trace of medium to coarse sand. (Glacial Till)
				Artesian pressure sealed off after backfilling back up to -28.0'
30	100/3"		STD 100/3" PEN 7	(Glacial Till - Gravelly). No Recovery.
				Artesian pressure begins at -32.0' while boring down.
35	46		11 STD 24 PEN 8 22 23	Dense, gray, moist, fine gravelly, fine to coarse SAND. Flow: 240 gallons/hour.
40	66		18 STD 24 PEN 9 42	Very dense, tan, moist, silty, fine to medium SAND - with a trace of clay and a pocket of silt.
45	120		24 STD 50 PEN 10	Very dense, gray, moist, silty, fine to medium SAND.

Hole No. HX-15 Sub Section 3rd Lake Washington Floating Bridge Sheet 3 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			70 ▼	Artesian Flow: 1200 gallons per hour.
50	62/6"		33 ▲ STD 62 ▼ PEN	Very dense, gray, moist, fine to coarse sandy GRAVEL.
			11	Artesian pressure at -50.0'. Head: +16 ft. above lake surface.
				2½' Artesian flowback in casing, from -52.6' back up to -50.0'.
			10 ▲ STD 16 ▼ PEN	No Recovery - Lost spring retainer fingers and sample from bumping sampler back up through 8 ft. of Artesian flowback after sampling. Took 1 hour to get sampler out.
	38		22 12 28 ▼	
55				
60				
65	72		10 ▲ STD 35 ▼ PEN	No Recovery - Lost sample along with spring retainer fingers bumping sampler back up through 15 ft. of Artesian pushed pebbly sand, from -65.5' back up to -50.5'. Took 2 hours to get sampler out.
			37 13 ▼	
				Layer of gravelly sandy silt.
70				Back into Artesian stratum of sandy gravel.

Hole No. HX-15 Sub Section 3rd Lake Washington Floating Bridge Sheet 4 of 5

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
75				
				Layer of silty SAND and GRAVEL.
				Back into sandy gravel with artesian pressure.
80				
				Backfilled with mixture of fine gravel, Barite, Bentonite pellets and wash sand from -85.0', back up through Artesian stratum to -28.0', where Artesian flow stopped.
85				
				Gravelly Silt in wash.
90				
				Slight artesian pressure from 85.0' to 92.5'.
	86/ 6"		31 ↑ STD 86 ↓ PEN 14	Very dense, gray, moist, very silty, fine SAND - with traces of medium to coarse sand and fine gravel.
95				

Sheet 5 of 5

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. L-4203 (L-7579)Hole No. HX-16 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704Station L184+45 Offset 25' Lt. Ground El. -64.4'Type of Boring Chop & Drive, & Rotary Casing 4" I.D. -80' (-5.0')
3" I.D. -148.8 (-73.5') W.T. El. +8.9'Inspector _____ Date April 26, 1983 Sheet 1 of 6

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				Gravelly SAND - with rotten wood fragments.
5				
	1		1 1 0/12" STD PEN 1	No recovery.
10			B C D U- 2	
	29		13 17 12 4 STD PEN 3	Dense, gray, wet, very silty, fine SAND - with a trace of medium sand and fine gravel. Contains thin peat lens at 13.0'.
15	2		2 1 1 STD PEN 4	Soft, gray, moist, fine sandy silty CLAY.
20				

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84W107 Sheet 50 of 57 Sheets

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Hole No. HX-16

Sub Section 3rd Lake Washington Floating Bridge

Sheet 2 of 6

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	2		2 1 1/12" STD PEN 5	Soft, gray, moist, fine sandy silty CLAY.
25			C D E F 2 3 4 4 STD PEN 7	Medium stiff, gray, moist, fine sandy silty CLAY.
30	34		9 18 16 18 STD PEN 8	Dense, gray, moist, very silty, fine gravelly, fine SAND - with a trace of medium to coarse sand.
35	33		29 15 18 18 STD PEN 9	Dense, gray, moist, very silty, fine gravelly, fine SAND - with a trace of medium to coarse sand.
40				
	19		9 10 9 14 STD PEN 10	Medium dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
45				

Hole No. HX-16 Sub Section 3rd Lake Washington Floating Bridge Sheet 3 of 6

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	29		15 ↑ STD 14 ↑ PEN 15 ↓ 11 15 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
50				
	35		19 ↑ STD 17 ↑ PEN 18 ↓ 12 15 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
55				
	33		11 ↑ STD 14 ↑ PEN 19 ↓ 13 21 ↓	Dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel.
60				
	17		13 ↑ STD 8 ↑ PEN 9 ↓ 14 12 ↓	Medium dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel. Sand layer 61.9' to 62.2'
65				
	10		8 ↑ STDa 4 ↑ PEN 6 ↓ 15b 22 ↓	Loose, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel. Layer of loose, gray, wet, silty, fine gravelly, fine to coarse SAND.
			c	Medium dense, gray, moist, fine sandy SILT - with a trace of medium to coarse sand and fine gravel. (Glacial Till)
70				

Hole No. HX-16 Sub Section 3rd Lake Washington Floating Bridge Sheet 4 of 6

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	24		8 ↑ STD 10 ↑ PEN 14 ↓ 16 15 ↓	Very stiff, gray, moist, fine sandy, silty CLAY.
75				
	32		11 ↑ STD 15 ↑ PEN 17 ↓ 17	Hard, gray, moist, very silty, clayey, fine SAND.
80				
	32		A ↑ U- B ↑ 18 C ↑ STD 11 ↑ PEN 14 ↓ 19 18 ↓ 20 ↓	Hard, gray, moist, laminated, clayey, fine sandy SILT. Stratum here has an approximate 75° dip.
85				
	34		9 ↑ STD 15 ↑ PEN 19 ↓ 20	Hard, gray, moist, clayey, fine sandy SILT. Laminated in places; contains 20° to 30° dip.
90				
	57		12 ↑ STD 20 ↑ PEN 37 ↓ 21	Hard, gray, moist, clayey, fine sandy SILT. Laminated in places.
95				

Hole No. HX-16 Sub Section 3rd Lake Washington Floating Bridge Sheet 5 of 6

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	69		17 ↑ STD 25 PEN 44 ↓ 22	Very hard, gray, moist, clayey, fine sandy SILT. Laminated in places.
100				
	81		17 ↑ STD 33 PEN 48 ↓ 23	Very hard, gray, moist, slightly clayey SILT.
105				
	68		14 ↑ STD 26 PEN 42 ↓ 24	Very hard, gray, moist, slightly clayey SILT.
110				
	126		23 ↑ STD 38 PEN 88 ↓ 25	Very hard, gray, moist, slightly clayey SILT.
115				
	141/111		27 ↑ STD 41 PEN 100/↓ 26 5"	Very hard, gray, moist, slightly clayey SILT.
120				

Hole No. HX-16 Sub Section 3rd Lake Washington Floating Bridge Sheet 6 of 6

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LOG OF TEST BORING

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

S.H. _____ S.R. I-90 SECTION Jct. SR-5 to Vic. Jct. SR-405 Job No. I-4203 (L-7579)Hole No. HX-17 Sub Section 3rd Lake Washington Floating Bridge Cont. Sec. 1704Station L 198+41 Offset 60' Rt. Ground El. 14.5'Type of Boring Hollow Stem Auger Casing Auger 43.5' W.T. El. 9.5'Inspector _____ Date April 27, 1983 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
				Dark brown TOPSOIL.
				Brown, dry, slightly silty, gravelly, fine to coarse SAND.
5	67		18 ↑ STD 27 ↓ PEN 40 ↓ 1	Very dense, brown, moist, fine sandy SILT - with a trace of medium sand and gravel.
10	89		14 ↑ STD 32 ↓ PEN 57 ↓ 2	Very dense, gray, moist, fine to medium sandy SILT - with a trace of coarse sand and gravel.
15	63		16 ↑ STD 25 ↓ PEN 38 ↓ 3	Very dense, gray, moist, fine to medium sandy SILT - with a trace of coarse sand and gravel.
20	70/6"		27 ↑ STD 70 ↓ PEN 4 ↓	Very dense, black, gray, moist, highly organic, decomposed, fine sandy SILT - with fine sand partings and peat lenses.

DOT FORM 351-003
REVISED 12/79

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Hole No. HX-17

Sub Section 3rd Lake Washington Floating Bridge

Sheet 2 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
25	93/ 9"		25 ↑ STD 43 ↓ PEN 50/3" 5	Very dense, gray, moist, fine sandy SILT - with fine sand pockets and partings and a trace of decomposed material.
30	97		40 ↑ STD 43 ↓ PEN 54 ↓ 6	Very dense, gray, moist, very silty, fine to medium SAND - with a trace of coarse sand and fine gravel.
35	76		30 ↑ STD 35 ↓ PEN 41 ↓ 7	Very dense, gray, wet, silty, fine to medium SAND.
40	87/ 6"		35 ↑ STD 87 ↓ PEN 8	Very dense, gray, dry, highly organic, fine sandy SILT - with fine sand partings and a 2" lense of peat at 40'.
45	127		24 ↑ STD 37 ↓ PEN 90 ↓ 9	Very dense, gray, moist SILT - with vertical fine sand layers and decomposed material. Test boring stopped at 45.0' below ground elevation.

